

ABSTRACT

CV XYZ is a company that operates in the field of livestock, especially goat that are environmentally friendly. The company focuses on goat farming as well as the production of goat feed in the West Nusa Southeast region. In the production of goat feed, CV XYX has a barrier with the presence of defective feed. Based on feed production data for 20 months (September 2020 – September 2022), there were 10 months of production of defective feed that exceeded the company's tolerance limit of 4% in particular in the feed pressure process. In the process of suppression of feed has the most defect feed frequency. Based on this, this research aims to design a tool for recommendation of feed press that can minimize feed defects on the process of feed pressure with the DMAI approach using the QFD method. The result of the research is a design of the press tool suggestion that can be used on the barrel with a retention feature on the top of the tramp so that the tool can well stand. However, the use of the tool can only be used on pots of 100 cm with a diameter of 45 cm. Based on the results of the new sigma value calculation, the use of suggestion press tools can reduce the amount of defective feed by 30.4% with a Sigma value of 3.72 or the equivalent of 13.047 DPMO, the previous by 3.58.

Keywords – Six Sigma, DMAI, Defect, QFD.